

GARY R. HERBERT Governor

SPENCER J. COX Lieutenant Governor

Department of Environmental Quality

Alan Matheson
Executive Director

DIVISION OF WASTE MANAGEMENT AND RADIATION CONTROL Scott T. Anderson Director

March 23, 2016

Jay Vance, P.E. Environmental Quality Manager Stericycle, Inc. 90 Foxboro Drive North Salt Lake, UT 84054

RE: Draft Medical Waste Incinerator Permit

Dear Mr. Vance:

The Division of Waste Management and Radiation Control has prepared a draft permit for the Stericycle Medical Waste Incinerator to be located in Tooele County. This draft permit is for your review prior to conducting a 30-day public comment period. Please provide any comments by April 6, 2016. The Division plans to begin the public comment period for the draft permit on April 18, 2016.

If you have any questions, please call Roy Van Os at (801) 536-0245.

Sincerely,

Scott T. Anderson, Director

Division of Waste Management and Radiation Control

STA/RVO/kl

Enclosure:

c: Brian Hatch, Interim Health Officer, Davis County Health Dept.
David W. Spence, EHS, MBA, Environmental Health Director, Davis County Health Dept.
Jeff Coombs, EHS, Health Officer, Tooele County Health Department
Bryan Slade, Environmental Health Director, Tooele County Health Department

DIVISION OF WASTE MANAGEMENT AND RADIATION CONTROL SOLID WASTE INCINERATOR PERMIT

Stericycle Tooele Medical Waste Incinerator

Pursuant to the provisions of the Utah Solid and Hazardous Waste Act, Title 19, Chapter 6, Part 1, Utah Code Annotated (Utah Code Ann.) (the Act) and the Utah Solid Waste Permitting and Management Rules, Utah Administrative Code R315-301 through 320 adopted thereunder, a Permit is issued to

Stericycle, Inc. as owner and operator, (Permittee),

to own, construct, and operate the Stericycle Tooele Incinerator. The Permittee has selected a 40-acre parcel on which to locate its facility. The parcel is described as the southwest quarter of the northeast quarter of Section 3, Township 1 North, Range 8 West, Salt Lake Base and Meridian, Tooele County, Utah as shown in the Permit Application that was determined complete on *insert date (include tracking number)*.

The Permittee is subject to the requirements of R315-301 through 320 of the Utah Administrative Code and the requirements set forth herein.

All references to R315-301 through 320 of the Utah Administrative Code are to regulations that are in effect on the date that this permit becomes effective.

This Permit sh	nall become effective	
This Permit sh	nall expire at midnight	
Closure Cost l	Revision Date	
Signed this _	day of, 2016	5.
	7. Anderson, Director on of Waste Management and	l Radiation Control

FACILITY OWNER/OPERATOR INFORMATION

INCINERATOR NAME:

Stericycle Tooele Incinerator

OWNER NAME:

Stericycle, Inc.

OWNER ADDRESS:

28161 North Keith Drive, Lake Forrest, Illinois,

60045

OWNER PHONE NO.:

(847) 607-2008

OPERATOR NAME:

Stericycle, Inc.

OPERATOR ADDRESS:

90 N 1100 W,

North Salt Lake, UT 84054

Insert local address when constructed

OPERATOR PHONE NO.:

(801) 936-1260 NSL # until facility

construction.

TYPE OF PERMIT:

Incinerator

BASE CAPACITY:

The base capacity, for the purpose of

compliance with UTAH CODE ANNOTATED 19-6-108(1)(6), of this incinerator, is 49.3 tons per day. The annual capacity is based on 365

days per year.

PERMIT NUMBER:

1601

LOCATION:

The Incinerator is located in Township 1 North,

Range 8 West, Section 3, SLMB, Tooele County, Lat. deg° min' sec.", Long. deg° min' sec." Include facility address or directions.

PERMIT HISTORY

Permit signed insert date permit was signed

The term, "Permit," as used in this document is defined in R315-301-2(55) of the Utah Administrative Code. "Director" as used throughout this permit refers to the Director of the Division of Waste Management and Radiation Control.

Attachments to this permit are hereby incorporated into this Solid Waste Permit. All representations made in the attachments are part of this Permit and are enforceable under R315-301-5(2) of the Utah Administrative Code. Where differences in wording exist between this Permit and the attachments, the wording of this Permit supersedes that of the attachments.

Compliance with this Permit does not constitute a defense to actions brought under any other local, state, or federal laws. This Permit does not exempt the Permittee from obtaining any other local,

state or federal permits or approvals required for the facility operation.

The issuance of this Permit does not convey any property rights, other than the rights inherent in this Permit, in either real or personal property, or any exclusive privileges other than those inherent in this Permit. Nor does this Permit authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations, including zoning ordinances.

The provisions of this Permit are severable. If any provision of this Permit is held invalid for any reason, the remaining provisions shall remain in full force and effect. If the application of any provision of this Permit to any circumstance is held invalid, its application to other circumstances shall not be affected.

By this Permit, the Permittee is subject to the following conditions.

PERMIT REQUIREMENTS

I. GENERAL COMPLIANCE RESPONSIBILITIES

I.A. General Operation

I.A.1. The Permittee shall operate the incinerator in accordance with all applicable requirements of R315-301 through 320 of the Utah Administrative Code that are in effect as of the date of this Permit unless otherwise noted in this Permit. Any permit noncompliance or noncompliance with any applicable portions of Utah Code Ann. § 19-6-101 through 125 and applicable portions of R315-301 through 320 of the Utah Administrative Code constitutes a violation of the Permit or applicable statute or rule and is grounds for appropriate enforcement action, permit revocation, or modification.

I.B. Acceptable Waste

- I.B.1. This Permit authorizes the incineration of the following non-hazardous solid wastes (See Attachment 1):
- I.B.1.a. Biohazardous waste including pathological waste:
- I.B.1.a.(1) Laboratory waste including:
- I.B.1.a(1)(i) Cultures medical or pathological;
- I.B.1.a(1)(ii) Cultures/stocks of infectious agents research and industrial;
- I.B.1.a(1)(iii) Vaccines and related waste generated in the production thereof;
- I.B.1.a(1)(iv) Microbiologic specimens and related waste;
- I.B.1.a(1)(v) Surgical specimens or tissues, contaminated animal parts, tissues carcasses or body fluids; and
- I.B.1.a(1)(vi) Fluid blood or blood products, containers or equipment and exudates, secretions, body fluids including, but not limited to, isolation waste.
- I.B.1.a.(2) Sharps waste including, but not limited to:
- I.B.1.a(2)(i) Needles, syringes, blades, needles with attached tubing, disposable surgical instruments; and
- I.B.1.a(2)(ii) Medical or laboratory glassware including slides, pipettes, blood tubes, blood vials, contaminated broken glass.
- I.B.1.a.(3) Other medical waste as required by the infection control staff, physician, veterinarian or local health officer to be isolated and handled as regulated medical waste.
- I.B.1.a.(4) Trace-contaminated chemotherapy (antineoplastic/cytotoxic drugs) waste.
- I.B.1.a.(5) Gowns, gloves, masks, barriers, IV tubing, empty bags or bottles, needles and syringes, empty drug vials, spill kits, and other items generated in the preparation and administration of antineoplastic drugs.
- I.B.2. Other Wastes:

I.B.2.b.	Confidential records, including, but not limited to, proprietary packaging and products;
I.B.2.c.	Contraband (e.g. police evidence);
I.B.2.d.	Agriculture Waste, Animal and Plant Health Inspection Service (APHIS) including regulated garbage from domestic and international sources;
I.B.2.e.	Outdated, off-specification or unused consumer commodities;
I.B.2.f.	Recalled or outdated disposable medical equipment or supplies;
I.B.2.g.	Sharps and I.V. tubing and bags or bottles which are being discarded and are considered incidental to preparation and administration of the drugs;
I.B.2.h.	"Municipal solid waste" as defined by the R315-301-2(47) of the Utah Administrative Code contaminated with potentially infectious materials;
I.B.2.i.	Other non-hazardous waste as approved by the Director of the Division of Waste Management and Radiation Control;
I.B.2.j.	Special wastes as defined by the R315-301-2(71) of the Utah Administrative Code limited to the following:
I.B.2.j.(1)	Furniture contaminated with potentially infectious materials;
I.B.2.j.(2)	Infectious waste; and
I.B.2.j.(3)	Dead animals.
I.C.	Prohibited Waste
I.C.1.	The following wastes are prohibited from incineration:
I.C.1.a.	Hazardous waste as defined by R315-1 and R315-2 of the Utah Administrative Code;
I.C.1.b.	Complete human remains, (e.g., that include head and/or torso), cadavers, and recognizable fetal remains;
I.C.1.c.	Compressed gas cylinders and canisters (including aerosol cans);
I.C.1.d.	Radioactive materials;
I.C.1.e.	Explosive materials;
I.C.1.f.	Bulk cytotoxic materials;
I.C.1.g.	Full or partially full I.V. bottles/bags and vials of chemotherapy agents that meet the definition of hazardous waste;
	,

Expired and unused pharmaceuticals;

I.B.2.a.

- I.C.1.h. PCBs as defined by R315-301-2 (53) of the Utah Administrative Code;
- I.C.1.i. Household waste, municipal waste, special waste, construction/demolition waste as defined by R315-301-2(16) of Utah Administrative Code except as allowed in Section IB above;
- I.C.1.j. Yard waste;
- I.C.1.k. Industrial waste;
- I.C.1.l. Asbestos:
- I.C.1.m. Asphalt; and
- I.C.2. Any prohibited waste received and accepted for incineration or storage, at the facility shall constitute a violation of this Permit, of Utah Code Ann. § 19-6-101 through 125 and of R315-301 through 320 of the Utah Administrative Code.
- I.D. Wastes that require Approval
- I.D.1. The following wastes cannot be accepted by the Permittee unless prior approval by the Director has been granted. The Permittee shall petition the Director for approval to accept these wastes. The petition shall demonstrate to the Director that the facility can safely manage and incinerate the waste and waste residue:
- I.D.1.a. Ebola waste;
- I.D.1.b. Prion wastes containing diseases such as "Mad Cow Disease" (Bovine Spongiform Encephalopathy, BSE);
- I.D.1.c. Chronic Wasting Disease;
- I.D.1.d. Avian Influenza; and
- I.D.1.e. Infectious waste, the management and disposal of which is being regulated by the Center for Disease Control (CDC), Department of Transportation (DOT), Department of Agriculture or Homeland Security.
- I.E. <u>Inspections and Inspection Access</u>
- I.E.1. The Director or an authorized representative, or representatives from the Tooele Health Department may enter at reasonable times and:

- I.E.1.a. Inspect the incinerator or other premises, practices or operations regulated or required by this Permit or R315-301 through 320 of the Utah Administrative Code;
- I.E.1.b. Have access to and copy any records required to be kept by this Permit or R315-301 through 320 of the Utah Administrative Code;
- I.E.1.c. Inspect any loads of waste, treatment facilities or processes, pollution management facilities or processes, or control facilities or processes required by this Permit or regulated by R315-301 through 320 of the Utah Administrative Code; and
- I.E.1.d. Create a record of any inspection by photographic, video, electronic, or any other reasonable means.

I.F. Noncompliance

- I.F.1. In the event of noncompliance with any permit condition or violation of an applicable rule under R315-301 through 320 of the Utah Administrative Code, the Permittee shall promptly take any action reasonably necessary to correct the noncompliance or violation and mitigate any risk to the human health or the environment. Actions may include eliminating the activity causing the noncompliance or violation and containment of any waste or contamination using barriers or access restrictions, placing of warning signs, or permanently closing areas of the facility.
- I.F.2. The Permittee shall:
- I.F.2.a. Document the noncompliance or violation in the daily operating record, on the day the event occurred or the day it was discovered;
- I.F.2.b. Notify the Director by telephone within 24 hours, or the next business day following documentation of the event;
- I.F.2.c. Give written notice to the Director of the noncompliance or violation and measures taken to protect human health and the environment within seven days after the Director has been notified; and
- I.F.2.d. Submit a written report to the Director within thirty days after documenting the event. This report shall describe the nature and extent of the noncompliance or violation and all remedial measures taken or to be taken to protect human health and the environment to eliminate the noncompliance or violation. Upon receipt and review of the assessment report, the Director may order the Permittee to perform appropriate remedial measures including development of a site remediation plan for approval by the Director.
- I.F.3. In an enforcement action, the Permittee may not claim as a defense that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with R315-301 through 320 of the Utah Administrative Code and this Permit.

I.G. Revocation

I.G.1. This Permit is subject to revocation if the Permittee fails to comply with any condition of the Permit. The Director will notify the Permittee in writing prior to any proposed revocation action under R315-311-2(3) of the Utah Administrative Code. Such action shall be subject to all applicable hearing procedures established under R305-7 of the Utah Administrative Code and the Utah Administrative Procedures Act.

I.H. Attachment Incorporation

I.H.1.a. Attachments to the Permit are incorporated by reference into this Permit and are enforceable conditions of this Permit, as are documents incorporated by reference into the attachments. Language in this Permit supersedes any conflicting language in the attachments or documents incorporated into the attachments.

I.I. Ash Analysis

- I.I.1. Once every five years, the Permittee shall perform the full TCLP analysis on the bottom ash.
- I.I.2. Every three months, the Permittee shall perform a TCLP metals analysis on the bottom ash resulting from the incineration of medical and other permitted waste in accordance with R315-306-2(7) of the Utah Administrative Code and Attachment 2:
- I.I.2.a. The Permittee shall select a single bin of ash to make the waste determination of the ash generated by the Permittee. Waste characterization for the next three months shall be based on samples collected from that single bin;
- I.I.2.b. Sixteen random locations shall be chosen within the bin using a random number generator to obtain grab samples. Each consecutive four samples shall be mixed to generate a composite sample. A total of four composite samples shall be sent to the laboratory for analysis for this sampling event;
- I.I.2.c. Laboratory results shall be evaluated for quality assurance/quality control (QA/QC) before any waste determinations are made. After demonstrating that laboratory QA/QC has been maintained, the statistical demonstration for each of the chemical of concern (COC) shall be made. The standard deviation and variance for each COC shall be evaluated on the results of the four composite samples. The confidence interval (CI) for each COC shall be determined for the 80% CI double sided or 90% CI single-sided t-test; and
- I.I.2.d. If four composite samples are not enough samples to describe the statistical distribution in the bin, additional random samples shall be taken from the same bin and analyzed. Analyzed and validated results shall be added to the statistical pool calculating the CI for each COC.

- I.I.3. If the upper confidence limit is greater than the regulatory limit for any COC, the sample shall be considered a failing sample because it does not meet the 90% upper confidence limit. In the case where the upper confidence limit exceeds the regulatory threshold (RT), bottom ash shall be characterized on a bin-by-bin basis or be characterized as hazardous waste and managed in an approved hazardous waste landfill.
- I.I.4. Bins that are characterized on a bin-by-bin basis shall be characterized based on the TCLP analysis of a single composite sample comprised of four random grab samples within the bin. If the concentration is less than the RT for any COC, the bin may be disposed as a non-hazardous waste. If the concentration is greater than the RT for any COC, the waste shall be disposed in an approved hazardous waste landfill.
- I.I.5. If the 90% single-sided upper confidence limit is below the regulatory threshold for each COC, the ash bin may be characterized as non-hazardous and all ash bins generated during the subsequent three months (quarter) may be characterized non-hazardous and may be disposed in an approved non-hazardous waste landfill.
- I.I.6. Each quarter's sampling event shall be statistically separate from previous sampling events.
- I.I.7. The Permittee may petition the Director to reduce the ash analysis sampling frequency from once every three months to once every six month after four consecutive sampling events where the results have demonstrated that the ash is non-hazardous at the 90% single-sided upper CI for each of the COCs.
- I.I.8. If ash sampling analysis fails to demonstrate at the 90% single-sided upper CI that the ash is non-hazardous while the facility is performing the ash sampling frequency once every six months, the ash sampling frequency shall be increased to once every three months until four consecutive sampling events demonstrate the ash is non-hazardous waste in accordance with I.I.2.i.
- I.I.9. Results of ash analysis shall be submitted to the Division no later than 45 days after the sampling event.
- I.I.10. Results of all testing shall be kept on file at the facility office and available for inspection for a minimum of three years.
- I.I.11. If any composite samples test positive for a hazardous characteristic, the facility shall notify the Director within two business days after receipt of the results.
- I.I.12. Written notification shall be provided to the Director within ten business days.
- I.I.13. All ash bins shall be stored onsite until a final determination based on the results of the composite samples or alternatively may be disposed based on analysis of a single composite sample comprised of four random grab samples as described in I.I.2.f.
- I.I.14. Stericycle may petition the Division to reduce the sampling frequency from once every three months to once every six months after successfully demonstrating that the bottom ash is non-hazardous at the 90% single-sided upper CI for each of the COCs for four consecutive sampling events.

I.I.15. If any bottom ash sampling event demonstrates that the ash cannot meet the 90% single-sided upper CI for each of the COCs, the sampling frequency shall be reestablished at once every three months.

II. DESIGN AND CONSTRUCTION

II.A. <u>Design and Construction</u>

- II.A.1. The Permittee shall construct the incinerator and any run-on diversion system, runoff containment system, waste treatment facility, and leachate handling system in accordance with the design submitted as part of permit application and in accordance with the R315-301 thru 320 of the Utah Administrative Code.
- II.A.2. Subsequent to construction, the Permittee shall notify the Director of completion of construction of the facility or any portion of the facility, any engineered control system, or any waste treatment facility. The Permittee shall submit as-built drawings for each construction event that are stamped and approved by an engineer registered in the State of Utah.

II.B. Run-On Control

II.B.1. The Permittee shall construct drainage features and maintain them at all times to effectively prevent runoff from the surrounding area from contacting any stored waste.

III. INCINERATOR OPERATION

III.A. Plan of Operations

III.A.1. The Permittee shall keep the Plan of Operations included in Attachments 1 through 16 on site at the Stericycle Tooele Incinerator Facility. The Permittee shall operate the incinerator in accordance with the Plan of Operations. If necessary, the Permittee may modify the Plan of Operations in accordance with R315-301 through 320 of the Utah Administrative Code and is approved by the Director as a permit modification under R315-311-2(1) of the Utah Administrative Code. The Permittee shall note any modification to the Plan of Operations in the daily operating record.

III.B. Security

- III.B.1. The Permittee shall restrict unauthorized entry to the facility. The Permittee shall:
- III.B.1.a. Lock all facility gates and other access routes during the time the facility is closed;
- III.B.1.b. Have at least two persons employed by the Permittee at the facility during all hours that the facility is open; and
- III.B.1.c. Construct all fencing and any other access controls as described in Attachment 6 to prevent access.

III.C. Training

III.C.1. The Permittee shall train on-site personnel in facility operation, including waste load inspection, hazardous waste identification, and personal safety and protection as described in Attachment 5. The Permittee shall train employees to recognize prohibited wastes and safely remove them from shipping containers.

III.D. Fire Control

III.D.1. The Permittee shall extinguish all accidental fires as soon as reasonably possible. In the event of fire or other emergency, the Permittee shall implement the Contingency Plan as described in Attachment 7.

III.E. Waste Tracking

- III.E.1. The Permittee shall maintain a waste tracking system that records the origin of each container of medical waste and track the waste from the origin to the destruction or treatment as described in Attachment 3.
- III.E.2. The Permittee shall maintain a waste acceptance program that trains customers to recognize which wastes are acceptable for incineration and which are unacceptable.
- III.E.2.a. Personnel trained in recognition of hazardous waste and other unacceptable waste shall conduct a visual inspection of the waste; and
- III.E.2.b. The personnel conducting the inspection shall record the results of the inspection on a waste inspection form. The Permittee shall place the form in the daily operating record at the end of the operating day.

III.F. Radiation Screening Protocol

III.F.1. Prior to treatment, the permittee shall screen all containers in accordance with the Radiation Screening Protocol described in Attachment 9 using a radiation monitor. Any container with a radiation reading above 30-36 μR/hr shall be rejected from treatment. If radiation is detected above 30-36 μR/hr, the Radiation Screening Protocol shall be followed.

III.G. Self Inspections

- III.G.1. The Permittee shall inspect the facility to prevent malfunctions and deterioration, operator errors, and discharges that may cause or lead to the release of wastes or contaminated materials to the environment or create a threat to human health or the environment. Inspections shall be performed in accordance with Attachment 4 and shall include:
- III.G.1.a. Daily Inspection Log / Summary;
- III.G.1.b. Transportation Inspection Log / Summary;
- III.G.1.c. Radiation Screening Unit Checks and Calibration; and
- III.G.1.d. Facility Monthly and Quarterly Inspections.

- III.G.2. The Permittee shall complete general inspections which include the following areas:
- III.G.2.a. Fences and access controls;
- III.G.2.b. Roads; run-on/run-off controls;
- III.G.2.c. Litter controls; and
- III.G.2.d. Records
- III.G.3. The Permittee shall perform the general inspections listed above no less than quarterly and place a record of the inspections in the daily operating record on the day of the inspection. The Permittee shall correct the problems identified in the inspections in a timely manner and document the corrective actions in the daily operating record.
- III.G.4. A copy of the forms used for Inspections are included in Attachment 4.
- III.H. Recordkeeping
- III.H.1. The Permittee shall maintain and keep on file at Stericycle Tooele Incinerator Office, a daily operating record and other general records of facility operation as required by R315-302-2(3) of the Utah Administrative Code. The facility operator, or other designated personnel, shall date and sign the daily operating record at the end of each operating day. Each record shall contain the signature of the appropriate operator or personnel and the date signed. The daily operating record shall consist of the following documents:
- III.H.1.a. Daily Operating Record;
- III.H.1.b. Daily Summary of Total Waste Incinerated; and
- III.H.1.b.(1) The total waste incinerated during a calendar day will be determined and logged. The log of daily total waste incinerated shall be completed and placed in the operating record at the end of each day in accordance with R315-302(3)(a) of the Utah Administrative Code.
- III.H.1.b.(2) The log will include the following information:
- III.H.1.b(2)(i) Date;
- III.H.1.b(2)(ii) Total Weight of Waste Incinerated for each day;
- III.H.1.b(2)(iii) Comments and deviations from the approved Plan of Operation; and
- III.H.1.b(2)(iv) Printed name and signature of facility manager (or designee)
- III.H.1.c. Daily Summary of Primary Combustion Temperatures.
- III.H.1.c.(1) The log of daily primary combustion temperature ranges shall be completed and placed in the operating record at the end of each day in accordance with R315-302(3)(a) of the Utah Administrative Code. The log shall include the following information:
- III.H.1.c(1)(i) Date;

- III.H.1.c(1)(ii) Range of Primary Combustion Chamber Temperatures while waste is being incinerated;
- III.H.1.c(1)(iii) Comments and deviations from the approved Plan of Operation;
- III.H.1.c(1)(iv) Printed name and signature of facility manager (or designee); and
- III.H.1.c(1)(v) Log of temperature while waste is being incinerated
- III.H.1.d. Daily Summary of Ash Generated.
- III.H.1.d.(1) Ash generated during a calendar day will be determined and logged. The log of daily ash generated shall be completed and placed in the operating record at the end of each day in accordance with R315-302(3)(a) of the Utah Administrative Code. The log shall include the following information:
- III.H.1.d(1)(i) Date;
- III.H.1.d(1)(ii) Weight of Fly Ash Generated each day;
- III.H.1.d.(2) The weight of a filled roll-off container of ash may be used and assigned to a date of generation if a container of ash is being filled over one or more calendar days. Estimated weights of containers based on average or typical weights may be used.
- III.H.1.d.(3) Comments and deviations from the approved Plan of Operations
- III.H.1.d.(4) Printed name and signature of facility manager (or designee)
- III.H.2. Other General Records:
- III.H.2.a. Inspection Records and General Records.
- III.H.2.a.(1) The Permittee shall keep the following general records as part of the Daily Operating Record These records shall be included with the daily operating record on the date information is documented:
- III.H.2.a(1)(i) Monthly summary reports of the daily records may be included in the daily operating record by the twentieth of the month following the previous month but shall not replace the daily records;
- III.H.2.a(1)(ii) A copy of this Permit, including all attachments;
- III.H.2.a(1)(iii) Results of inspections conducted by representatives of the Director, and of representatives of the local Health Department, when forwarded to the Permittee;
- III.H.2.a(1)(iv) Records of employee training.

III.I. Reporting

- III.I.1. The Permittee shall prepare and submit to the Director an Annual Report as required by R315-302-2(4) of the Utah Administrative Code. The Annual Report shall include the period covered by the report, the annual quantity of waste incinerated, all training programs completed and an annual update of the financial assurance mechanism.
- III.J. Roads
- III.J.1. The Permittee shall improve and maintain all access roads within the facility boundaries.

III.K. <u>Litter and Fugitive Dust Control</u>

III.K.1. The Permittee shall minimize litter resulting from operations of the facility. shall be minimized. The Permittee shall manage dust from the parking lots, access roads, bottom ash system and fly ash system.

IV. CLOSURE REQUIREMENTS

IV.A. Closure

IV.A.1. The Permittee shall perform closure in accordance with Attachment 8. Closure shall be performed by removing all waste from the waste holding area and all ash from the incinerator and decommissioning all process equipment. The Permittee shall notify the Director when all closure operations are complete.

IV.B. Financial Assurance

- IV.B.1. The Permittee shall submit to the Director, for review and approval, closure cost estimates and a financial assurance mechanism that meets the requirements of R315-309 of the Utah Administrative Code.
- IV.B.2. The Permittee, prior to receipt of waste, shall establish the approved mechanism and fund it as required. The Permittee shall keep the approved financial assurance mechanism in effect until closure activities are completed and the Director has released the facility from all closure requirements.

V. ADMINISTRATIVE REQUIREMENTS

V.A. Permit Modification

V.A.1. Modifications to this Permit may be made upon application by the Permittee or by the Director as outlined in R315-311-2 of the Utah Administrative Code. The Permittee shall be given written notice of any permit modification initiated by the Director.

V.B. Permit Transfer

V.B.1. This Permit may be transferred to a new permittee or new permittees by complying with the permit transfer provisions specified in R315-310-11 of the Utah Administrative Code.

V.C. <u>Expansion</u>

V.C.1. This Permit is for an incinerator with a throughput of 49.3 tons per day (for all incinerators). Any modification of throughput of more than 50% above the original permitted throughput will require a new permit and the approvals required in Utah Code Ann. 19-6-108(1).

V.D. <u>Expiration</u>

- V.D.1. If the Permittee desires to continue operation after the expiration date of this Permit, the Permittee shall submit an application for permit renewal at least 180 days prior to the expiration date, as shown on the signature (cover) page of this Permit in accordance with R315-311-1(4)(a) of the Utah Administrative Code. If the Permittee timely submits a permit renewal application and the permit renewal is not complete by the expiration date, this Permit shall continue in force until renewal is completed or denied.
- V.E. <u>Status Notification</u>
- V.E.1. Eighteen months from the date of this Permit, the Permittee shall notify the Director in writing of the status of the construction of this facility unless construction is complete and operation has commenced. If construction has not begun within 18 months the Permittee shall submit adequate justification to the Director as to the reasons that construction has not commenced.
- V.E.2. The Permittee shall notify the Director in writing when the Legislature and the Governor have approved the Permit as provided in Utah Code Ann. § 19-6-108(3)(c). No construction may be commenced on the facility until the Permittee give this notice to the Director and the Director acknowledges to the Permittee in writing that the Director has received the notice.

ATTACHMENT 1

ACCEPTABLE WASTES

I. WASTE MANAGEMENT PROCEDURES

1.0 DESCRIPTION OF WASTE

A. Acceptable Wastes

The medical waste processed at the facility is solid waste generated in healthcare or healthcare-related facilities, animal care, and research, pharmaceutical manufacturing and distribution facilities. The facility also processes special waste streams approved by the Division of Waste Management and Radiation Control.

Typical wastes include paper, plastic, cloth, diagnostic cultures, human and animal tissues generated by hospitals, nursing homes, clinics, and other medical, dental and veterinary facilities; and expired and unused pharmaceuticals.

Regulated medical waste is generally defined as any waste that can cause an infectious disease or that reasonably can be suspected of harboring human pathogenic organisms. It is also known as red bag waste, infectious waste, potentially infectious waste, biomedical waste, and biohazardous waste. Regulated medical waste includes single-use disposable items such as needles, syringes, gloves, and laboratory, surgical, emergency room and other supplies, which have been in contact with blood, blood products, bodily fluids, cultures or stocks of infectious agents.

The following wastes are acceptable at the Stericycle facility:

Wastes, including regulated medical wastes that are generated in the diagnosis, treatment, or immunization of humans or animals or related research, in the production/testing of biological materials (vaccines), and in the preparation and administration of chemotherapy waste, including waste defined by federal, state and local laws as medical, biohazardous, biomedical, infectious, and other wastes identified below:

- 1 Biohazardous waste including pathological waste:
- 2 Laboratory waste including:
 - Cultures medical/pathological
 - Cultures/stocks of infectious agents research and industrial
 - Vaccines and related waste generated in the production thereof

- Microbiologic specimens and related waste
- 3 Surgical specimens/tissues, contaminated animal parts, tissues, carcasses or body fluids
- 4 Fluid blood/blood products, containers/equipment and exudates, secretions, body fluids including, but not limited to, isolation waste
- 5 Sharps waste including, but not limited to:
 - Needles, syringes, blades, needles with attached tubing, disposable surgical instruments
 - Medical/laboratory glassware including slides, pipettes, blood tubes, blood vials, contaminated broken glass
- Other medical waste as required by the infection control staff, physician, veterinarian or local health officer to be isolated and handled as regulated medical waste.
- 7 Trace-contaminated chemotherapy (antineoplastic/cytotoxic drugs) waste:
 - Gowns, gloves, masks, barriers, IV tubing, empty bags/bottles, needles and syringes, empty drug vials, spill kits, and other items generated in the preparation and administration of antineoplastic drugs
- 8 Other Wastes:
 - Expired and unused pharmaceuticals
 - Confidential records / proprietary packaging and products
 - Contraband (e.g. police evidence)
 - Agriculture (APHIS) Waste, including Regulated Garbage from domestic and international sources
 - Outdated, off-specification or unused consumer commodities
 - Recalled or outdated disposable medical equipment or supplies
- 9 Sharps and I.V. tubing and bags/bottles which are being discarded and are considered incidental to preparation and administration of the drugs.

- 10 Intravenous tubing, bags, bottles, vials and syringes used in chemotherapy preparation and administration that contain only residual amounts of antineoplastic drugs.
- "Municipal solid waste" as defined by UAC R315-302-2 (46) contaminated with potentially infectious materials
- Other non-hazardous waste as approved by the Division of Waste Management and Radiation Control.
- 13 Special wastes (as defined by UAC R315-302-2 include):
 - Furniture contaminated with potentially infectious materials
 - Infectious waste
 - Dead animals

B. Estimated Annual Quantities:

The maximum incineration capacity of the facility is 4,110 pounds per hour averaged. This estimated quantity accounts for up to two incinerators. The estimated annual maximum quantity of waste incinerated at the facility is approximately 18,000 tons per year.

C. Areas Served by Facility:

This facility serves the greater Salt Lake City area as well as the entire state of Utah. As part of Stericycle's business network, this facility also services various markets throughout North America. The primary market served is Stericycle's Western Regional system, including but not limited to the Pacific Coast and Intermountain States.

D. Non-conforming Waste:

Non-conforming waste will not be accepted for treatment and includes:

- 1. Chemical materials which are regulated as hazardous waste under RCRA or UAC Subsection 19-6-102 (10) and Section R315-2-3;
- Complete human remains (e.g., that include head and/or torso), cadavers, and fetal remains; (Stericycle will not accept recognizable fetal remains);;
- 3. Compressed gas cylinders and canisters (including aerosol cans);
- 4. Radioactive materials (as outlined in Section 3);

- 5. Explosive materials;
- 6. Bulk cytotoxic materials;
- 7. Full or partially full I.V. bottles/bags and vials of chemotherapy agents that constitute a hazardous waste.

A copy of Stericycle's Waste Acceptance Protocol is provided as an attachment to this application.

Any waste that is outside of the bounds of approved wastes must go through prior authorization by the State.

E. Waste Tracking:

Stericycle, Inc. currently employs a tracking system in which waste containers are labeled with the generators' unique codes and tracked.

Containers of waste are labeled and entered into the waste tracking system. Containers are picked up from the customer and taken to Stericycle treatment and/or logistics centers where the waste is accordingly treated or forwarded for treatment. Waste that is disposed via incineration at Stericycle is received and entered into our tracking system as part of the incineration process, allowing tracking of waste from pickup at the generator to final treatment.

F. Waste Screening Procedures and Policies:

Waste acceptance, screening procedures and guidelines are outlined in Section III-*Waste Acceptance Protocol*.

2.0 WASTE HANDLING AND STORAGE

A. Container Management:

1. Waste Receiving/Storage:

Typically, drivers load waste designated for management at Stericycle that is packaged at customers' facilities. Waste is transported to Stericycle's facility. Collection and transport vehicles arriving at the facility are directed either to an unloading dock or to a holding area. When directed or scheduled, vehicles are moved from the holding area to the unloading docks.

Waste received will be disposed within 30 days from the day of pickup as listed on the shipping manifest.

If infectious waste is to be stored longer than seven days prior to processing, it must be stored at or below 40 degrees F (5 C).

Waste received may be determined by Stericycle management to be consolidated and/or shipped to other facilities based on capacity, costs, customer needs, company policy, and/or waste properties.

2. Requirements to control pests and disease vectors are outlined in Section XII.

B. Container Management Practices:

1. Container Flow in Management Area:

Incoming waste containers are removed from vehicles onto the dock allowing adequate aisle space for workers to move about the receiving area and to allow for periodic cleaning.

Containers of waste for processing or transfer may be staged on the south dock, in the building, or on the truck. Containers may not be staged outside of these areas. Closed containers may be transferred from the processing area of the building for staging in the dry storage or other indoor areas of the building.

Waste received for treatment or transfer is weighed and screened for radiation, and the weight transfer and treatment is entered into the waste tracking system.

When non-conforming waste is encountered (e.g., waste labeled as hazardous waste, radioactive waste, compressed gas containers, containers of chemicals, or other non-conforming waste), the container of non-conforming waste is logged into the operating record as non-conforming waste and is taken to the non-conforming waste storage area where it awaits transport for further management elsewhere.

2. Container Handling:

Containers are loaded into the incinerator using loaders, forklifts, conveyors, and/or manually. Containers and/or lids may be washed out above the incinerator feed system, within a designated container wash area, or using a container wash system.

An operator may mix the waste containers and materials fed into incinerator as needed to achieve BTU and/or operational parameters.

3. Decanting of Containers:

Containers and bags of waste may be decanted/consolidated into other containers (e.g., macro bins) for subsequent management either on site or at another facility following transport.

4. Reusable Containers

Rigid reusable containers are available to Stericycle customers as a means of reducing exposure to blood borne pathogens. Reusable containers reduce the risk from leaking, soiled and/or mispackaged boxes. Reusable containers also reduce the risk of needle-stick and sharps-type injuries.

5. Disinfection of Reusable Containers

The reusable containers are disinfected after each use. Reusable containers are disinfected as outlined in 5.1, Section XII, Control of Disease Vectors.

6. Waste Containers

Various waste containers (of different kinds, sizes, and configurations) of reusable and diposable (incinerable) containers may be used at the facility that meet Federal DOT requirements under 49 CFR and which have been approved by Stericycle for use.

C. Removal of Liquids:

Liquids that are captured as part of the quenching and air quality control processes that are not placed into the quench tank will be placed into a holding tank. The contents of the holding tank are periodically pumped into a tanker truck to be hauled away off-site to an appropriate facility for water treatment and/or disposal. The on-site sanitary septic system is designed to accept wastewater from the employee bathroom/shower and office related facilities as well as wastewater from the tub wash process. The on-site sanitary septic system is under the jurisdiction of the Tooele County Health Department.

D. Waste Transportation:

Vehicles used to transport regulated medical waste shall comply with USDOT and applicable local transportation requirements. For personnel training requirements, see Section V.

E. Alternative Waste Handling or Disposal

A second, step-hearth incinerator similar to the first incinerator is planned for this facility. Once a second incinerator is approved for use at the facility along with the first, the incinerators may be used concurrently or alternatively. Using two incinerators is expected to reduce facility down time compared to a facility with one incinerator.

When the facility is not able to incinerate waste, during periods of outage and as needed to maintain compliance with applicable storage requirements, arrangements will be made for handling and disposal at other Stericycle locations or industry partners that are approved for such management, including arrangements for transport and delivery of waste for treatment to those facilities.

F. Litter Control / Spill Cleanup Plan

This plan applies to litter and waste-related spills from operations of the incinerator facility. Waste Handling

Waste handling and related activities are completed within the enclosed incinerator facility building. Consequently, litter or spillage of liquids is typically contained to the covered concrete floor of the facility within the enclosed structure.

Pickup and Cleanup Activities

Floor conditions will be monitored for litter and liquid spillage. If noted in sufficient quantities, the affected areas will undergo litter pickup or other necessary actions to sufficiently clean and/or disinfect the area. These activities will be performed on an as-needed basis as determined and directed by the facility manager or designee(s).

If the litter or liquid spillage meets the definition of a release as outlined in Section IX, protocols outlined in Section IX shall be followed.

ATTACHMENT 2

ASH ANALYSIS PLAN

ASH ANALYSIS PLAN



Stericycle, Inc. 90 Foxboro Drive North Salt Lake, UT 84054

With Assistance from:

Golder Associates Inc. 5B Oak Branch Drive Greensboro, NC 27407

January 2016

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Attachment 1 Stericycle Regulated Medical Waste Acceptance Policy

1.0 PURPOSE AND OVERVIEW

The purpose of this plan is to outline procedures and requirements, for the reestablishment of characterization of the bottom ash from Stericycle's Hospital Medical Infectious Waste Incinerator (HMIWI) located in North Salt Lake, Utah. This plan employs elements of the US EPA June 1995 Guidance for the Sampling and Analysis of Municipal Waste Combustion Ash for the Toxicity Characteristic, EPA530-R-95-036 (1995 EPA Guidance) and sampling protocols in Chapter 9 of Test Methods for Evaluating Solid Waste (SW-846). The state of Utah does not have specific regulations that apply to HMIWI, and consequently Stericycle draws on these Federal guidance documents, as well as its experience with medical waste incinerators located in multiple states that have more specific regulatory requirements, in creating this plan. This plan includes requirements for sampling, analysis, and related quality assurance/quality control (QA/QC) for determining hazardous waste characteristics and also outlines waste management requirements.

Stericycle has been operating a HMIWI in North Salt Lake, UT since 1989 and has been generating bottom ash since that time. Stericycle's bottom ash is a solid waste that is generated from the incineration of regulated medical waste from healthcare or healthcare-related facilities, and research, pharmaceutical manufacturing and distribution facilities. Based upon the experience at this and other Stericycle facilities, the bottom-ash waste stream is well understood and fairly homogeneous, as compared to that for municipal solid waste incinerators. Unlike municipal solid waste incinerators that could potentially accept exempt household hazardous waste, Stericycle has a Regulated Medical Waste Acceptance Policy¹ that is built into its contracts with its clients. Additionally, Stericycle provides regular training and informational material to generators to ensure proper policy adherence. The incineration process for medical wastes and the ash produced has not significantly changed since the initial operations in 1989. Additionally, many of the hazardous materials used in healthcare have been eliminated over time, such as cadmium-based bags and mercury containing instruments. Bottom ash management and testing has followed the permit conditions as they have been stated over time and since the last permit was issued in 2006.

An overview of the sampling scheme and sampling frequency in this plan is as follows:

■ Samples will be collected as random composite samples of bottom ash from various positions and depths in a bottom-ash bin and analyzed for Toxicity Characteristic Leaching Procedure (TCLP) metals. The procedure for random sample collection is provided in Section 2.

¹ See attached Stericycle Regulated Medical Waste Acceptance Policy.

- Four (4) initial² composite samples will be collected and analyzed from one bottom-ash bin during each of four (4) calendar quarters for the first year of sampling. The first sampling quarter will begin on the calendar month following the date on which Stericycle's revised solid waste permit is issued, as approved with changes related to bottom-ash sampling and this plan. Each subsequent quarter will cover a three (3) month interval with no gaps between months. During each quarterly sampling event, samples will be collected and a determination made regarding hazardous/non-hazardous waste characterization based on the analytical results of the composite samples collected within a calendar quarter in accordance with this plan. The first sampling quarter begins on the first day of the calendar month following the month wherein occurs the approval described in this section of this plan.
- Following the completion of four (4) consecutive quarters showing the waste is non-hazardous, sampling will continue on a semi-annual basis as outlined in this plan. If any semi-annual test indicates that a upper confidence interval exceeds the regulatory threshold, then Stericycle will revert back to quarterly testing until four consecutive quarters successfully indicate the ash is "non-hazardous".
- Hazardous/non-hazardous waste determinations will be made using SW-846 Chapter 9 guidance, the 1995 EPA guidance, and applicable hazardous waste determination rules, as outlined in this plan. At least every five (5) years, starting during the first calendar quarter of sampling, a sample will be analyzed for the full TCLP constituents, including the organic constituents³.

2.0 SAMPLE COLLECTION

The procedures for collecting bottom-ash samples are presented below.

Random sampling from a bin will be as follows: randomly generate a set of three numbers for each sample to be taken (1 through 4), to correspond with 64 (4 x 4 x 4) three-dimensional quadrants within the bottom ash in a bin. In the event that the same quadrant is identified more than once within the same bin by this randomly generated set of numbers, a separate sampling location within that identified quadrant should be selected for each sample taken, or another non-identical quadrant will be randomly generated for the location of that sample.

The initial quarterly bottom-ash samples will be collected as four (4) composite samples. Each composite sample will be created from four (4) randomly selected locations within a bottom ash bin using the random

Additional samples may be taken following initial or subsequent evaluation of calculated upper confidence intervals, as outlined later in this plan and in accordance with guidance for hazardous waste determinations outlined in SW-846.

³ This full-list TCLP composite sample will be collected during one of the quarterly composite samples taken as part of a quarterly sampling event (but is only required to be collected once every five years).

sampling protocols described in the previous paragraph⁴. The four (4) initial samples each quarter will be analyzed for TCLP metals. During the first calendar quarter of sampling, and then once every five years, one of the four (4) initial samples will also be analyzed for the full TCLP constituents, including the organic constituents.

Clean, powder-free nitrile gloves will be worn by sampling personnel during sample collection. Each composite sample should be thoroughly mixed prior to sample material being placed into the final laboratory-supplied sample container(s). Larger pieces within the composite sample that have particle size 5 significantly greater than 9.5 mm may be reduced in particle size prior to completing the thorough mixing, and/or discarded. Such materials may be reduced by crushing, cutting, breaking, or grinding 6. Tools, including mechanical tools (e.g., a mechanical crusher), may be used for particle-size reduction of such sample material.

Following mixing procedures (outlined above), samples should be placed directly into the laboratory-provided sampling containers. For TCLP metals analysis, each composite sample should fill an 8-ounce (or larger) jar. When full TCLP analysis is to be conducted⁷, two (or more) 8-ounce (or larger) jars will be filled. Containers specified by the laboratory for organic analyses will be utilized in accordance with laboratory instruction.

Collected samples will be shipped to the laboratory for analysis. Paperwork associated with sampling (i.e., chain-of-custody, custody seals, sample identification label, and shipping form⁸) should be prepared and available (i.e., obtained from the analytical laboratory) prior to each event. The samples will be packaged⁹ for shipment, sealed with a custody seal, and either hand-delivered (local laboratory) or shipped overnight by a commercial carrier. The chain-of-custody record is required for tracing sample possession from time of collection to time of receipt at the laboratory. A chain-of-custody record will accompany each individual shipment of samples. A copy of the completed chain-of-custody form will be returned to Stericycle after the shipping container reaches its destination and/or will be provided to Stericycle with the data package.

3.0 ANALYTICAL PROCEDURES

The laboratory should have both National Environmental Laboratory Accreditation Program (NELAP) and Utah state certifications for all required analytes. Analyses will be performed in accordance with US EPA SW-846. The laboratory analytical documentation will, at a minimum, include the following information:

⁴ In other words, aliquots or sub-samples of bottom ash will be obtained from sixteen (16) randomly selected locations within the initial bin, and these 16 subsamples will be formed into four (4) composite samples.

Based on visual inspection and sample-collector's estimation.

⁶ See 1995 EPA Guidance, page 6, item 7.

 $rac{7}{2}$ Or to further ensure adequate sample material is provided or available for laboratory analysis

A shipment form is used if the samples are to be sent to the laboratory via a third-party delivery service.

⁹ Preservatives for analysis of organics will be incorporated to samples as part of packaging as required by SW-846.

- Cover letter/Sample Information: Will include a brief description of the sample group (number and type of samples, field and associated laboratory sample identification numbers, preparation and analytical methods used). The laboratory data reviewer should also include a statement about whether all holding times and Quality Control (QC) criteria were met, samples were received intact and properly preserved, with a brief discussion of any deviations potentially affecting data usability. This discussion includes, but is not limited to, test method deviation(s), holding time violations, out-of-control incidents occurring during the processing of QC or field samples and corrective actions taken, and repeated analyses and reasons for the re-analyses (including, for example, contamination, failing surrogate recoveries, matrix effects, or dilutions). Dilution factors, including the reasons for the dilution (if any) should be provided. The report cover letter will be signed by an authorized laboratory representative, signifying that all statements are true to the best of the reviewer's knowledge (except as noted). One letter is required for each sample group (or sub-group of samples, if the planned set of samples is not sent to the laboratory all at once).
- Original chain-of-custody form (or a faithful copy, electronic version, or facsimile of the original).
- Analytical results: Will be provided for all parameters for which the samples were requested to be analyzed.
- Blank Data: For the requested analyses, the laboratory will provide the results of any preparation or analytical blanks associated with the sample group.
- QC Summary: The laboratory will provide summary forms detailing laboratory QC sample results, which include individual recoveries and relative percent differences (if appropriate) for the following QA/QC criteria: surrogates, batch Matrix Spike (MS) analyses, batch Matrix Spike Duplicate (MSD) analyses, Laboratory Control Standard (LCS), and sample duplicate analyses. QC limits will also be reported; if any QC limits are exceeded, a flag or footnote will be placed to indicate the affected samples. A minimum Level 2 data package should be provided by the contract laboratory.

4.0 QUALITY ASSURANCE AND QUALITY CONTROL PROGRAM

The assessment of blank analysis results will be in general accordance with US EPA guidance documents (US EPA 2014a and 2014b). No positive sample results will be relied upon unless the

¹⁰ The sample group may be a sub-group of the total set of samples to be collected.

concentration of the parameter in the sample exceeds five times the amount detected in a blank. If necessary, re-analysis or re-sampling¹¹ will be performed to confirm or refute suspect data.

Concentrations of any contaminants found in the blanks will be used to qualify the data following US EPA protocols. Any parameter detected in the sample, which was also detected above the reporting limit in any associated blank, will be qualified "B" when the sample concentration is less than five times the blank concentration. The "B" qualifier designates that the reported detection is considered to represent cross-contamination and that the reported constituent is not considered to be present in the sample at the reported concentration. If a result is "B" flagged <u>and</u> above the regulatory limit for any constituent as described below, re-sampling (of that composite sample) should occur.

Laboratory interference checks should be incorporated as part of the QA procedures. The QA procedures should include verification of the correct acidity for the leaching procedure to ensure representative analyses. The contract laboratory should ensure that the aliquot of leachate used for MS/MSD analysis is derived from the same leachate used for analysis of the primary sample. Laboratory control samples will be analyzed to verify that the analytical system meets method-specific criteria.

5.0 DATA EVALUATION AND WASTE MANAGEMENT

Following laboratory analysis, the data package will be provided to an independent data validator for evaluation of the package for QA/QC compliance. Following Level 2 validation of the data submitted, the independent data validator will provide a written narrative summarizing the validity of the data to Stericycle.

Following receipt of validation from the independent data validator of all of the initial, quarterly, composite sample results (and of subsequent sample results if additional samples are taken), upper confidence interval calculations will be determined for each parameter using the equation 12 in Chapter 9 of SW-846 (and in the 1995 EPA Guidance). These calculated upper confidence intervals will be compared to the regulatory thresholds for the associated TCLP parameter. The regulatory limits for the full TCLP list may be found at http://www.epa.gov/superfund/programs/clp/download/som/som22nfg.pdf.

If the upper limit of the confidence interval is less than the applicable regulatory threshold, the contaminant is not considered to be present in the waste at a hazardous concentration and the study is completed.

Re-sampling would be necessary when a result of a calculation of the upper confidence interval comes into question and the sample result is believed to be material or would make a difference in the associated waste-determination decision.

The equation for the upper confidence interval: CI (upper) = \vec{X} + (t_{20}) (s_x); where t_{20} is a t-value for a two-tailed confidence interval and a probability of 0.20; s_x is the standard error of sample, calculated as follows: $s_x = s / (\sqrt[4]{n})$; where

n = the number of samples, ands = the sample standard deviation

If any of the calculated upper confidence interval values exceed the regulatory limits for any of the constituents (especially if the generator believes that the sample mean x is greater than µ, the population mean), additional sample results from the initial bottom-ash bin may be included into the upper confidence interval calculation 13. The number of additional samples estimated to complete a quarterly sampling event may be derived by utilization of Equation 14 8 in SW-846 and determining how many additional samples 15 to take. If it is determined that additional samples 16 are to be taken, the number of samples to be taken for a subsequent addition to a quarterly sampling event may exceed the number determined by utilization of Equation 8.

Stericycle will not ship the bottom ash waste bin from which the initial samples were taken, and subsequent bins generated, until the analytical results are reviewed to determine the characterization of the material. If the upper confidence interval for the initial bottom-ash bin is below the regulatory threshold for all TCLP metals, the corresponding bin and subsequent bottom ash bins prior to the next quarterly (or semi-annual) sample may be transported to a non-hazardous waste landfill for disposal.

If the initial upper confidence interval exceeds (is greater than) the regulatory threshold for one or more of the TCLP metals, additional random composite samples 17 from the corresponding bin may be analyzed and the hazardous/non-hazardous waste determination made using guidance from SW-846 Chapter 9 and the 1995 EPA Guidance. The results are pooled with the initial data set and the confidence limits are recalculated with the additional samples. Original data is not excluded from these calculations. After completion of all sampling and analysis of the initial bin in accordance with the applicable guidance, should the upper confidence interval for the quarterly sampling exceed the regulatory threshold for any of the TCLP constituents (metals), then all subsequent bins for the quarter (and any bins of waste prior to the next quarter's sampling) will be evaluated on a bin-by-bin basis. These subsequent bottom ash waste bins may be sampled on a bin-by-bin basis via a composite sample as outlined in this plan and if the result of any such sampled bin is less than the regulatory thresholds, then that specific bin of bottom ash waste may be sent for disposal as non-hazardous waste at a non-hazardous waste disposal facility. If any of the TCLP constituents analyzed from the composite sample exceed the regulatory threshold (RT) for any constituent, then the bin analyzed will be disposed of as a hazardous waste at a Subtitle C landfill.

13 It is recommended that the statistics also be run using analytical results for prior sampling events (but not using data prior to July 2015) to see if the upper confidence interval is less than the regulatory threshold.

⁴ The equation for the number of samples is $n = (t_{20})^2 s^2 / \Delta^2$, where t_{20} is a t-value for a two-tailed confidence interval and a probability of 0.20; s is the standard deviation of a sample; and, Δ is the difference between the regulatory threshold, RT, (e.g., 5.0 mg/L for TCLP lead) and the sample mean, often stated as \bar{X} or "x bar") with Δ represented as the equation $\Delta = RT - \bar{X}$

The statistical mean for a specific analyte for the composite samples is calculated as follows: $\bar{X} = \Sigma x / n$, where: \bar{X} ("x bar") is the sample mean for a specific analyte, \$\Sigma\$x is the sum of all results for a specific analyte, and n is the total number of results for a specific sample event.

See guidance in SW-846, Chapter 9 (page NINE-14, Item 9, as an example).

¹⁷ Based on Equation 8, Chapter 9, SW-846, the appropriate number of samples to collect (n) can be determined using the following equation: $n = (t_{20})^2 s^2 / \Delta^2$, where t_{20} is a t-value for a two-tailed confidence interval and a probability of 0.20; s is the standard deviation of a sample; and, Δ is the difference between the regulatory threshold, RT, (e.g., 5.0 mg/L for TCLP lead) and the sample mean, often stated as \bar{X} or "x bar") with Δ represented as the equation $\Delta = RT - \bar{X}$.

6.0 REPORTING

The following will be submitted in a report to the Utah Division of Waste Management and Radiation Control (DWMRC) no later than forty five (45) days from the date of completion of collection of all of the samples from quarterly sampling and for all four (4) initial calendar quarters: the upper confidence interval calculated for each parameter, the underlying data points for each of the initial samples, and a copy of the written narrative from the independent data validator.

If additional samples are taken following the initial samples, a similar report will be submitted no later than forty five (45) days from the date of completion of each set of subsequent samples taken.

Stericycle will also notify the Utah Division of Waste Management and Radiation Control where there is a positive TCLP result (above the regulatory threshold) when bins are analyzed on a bin-by-bin basis. This notification to the Division will be made within seven (7) days of receiving a positive TCLP result from the laboratory.

7.0 RECORDKEEPING

Records, including laboratory analytical data and other pertinent paperwork pertaining to each sampling event, should be maintained in the facility's files for a period of no less than 3 years. Hard copies of reports will be submitted to the Utah DWMRC following evaluation of data as described above.

8.0 REFERENCES

US EPA. February 2007 (SW-846). <u>SW-846 Methods for Evaluating Solid Waste, Physical/Chemical Methods, Final Update IVB.</u> http://www.epa.gov/osw/hazard/testmethods/sw846/online/index.htm

US EPA. 2014a. National Functional Guidelines for Inorganic Superfund Data Review, OSWER 9355.0-131), EPA 540/R-013-001. August 2014. http://www.epa.gov/superfund/programs/clp/download/som/som22nfg.pdf

US EPA, 2014b. National Functional Guidelines for Superfund Organic Methods Data Review Multi-Media, Multi-Concentration (OSWER 9355.0-132), EPA 540/R-014-002. August 2014. http://www.epa.gov/superfund/programs/clp/download/ism/ism22nfg.pdf

US EPA 1994. Sample Equipment Decontamination, SOP #2006, Rev. 0.0. August 1994.

US EPA 1995 (1995 EPA Guidance). <u>Guidance for the Sampling and Analysis of Municipal Waste Combustion Ash for the Toxicity Characteristic</u> - 530-R-95-036 – 1995



REGULATED MEDICAL WASTE ACCEPTANCE POLICY

Stericycle policy requires compliance with all applicable regulations regarding the collection, transportation and treatment of regulated medical waste. Federal Department of Transportation (DOT) Regulations require the generator of regulated medical waste to certify that the packaging and documentation of transported regulated medical waste complies with DOT regulations regarding waste classification, packaging, labeling and shipping documentation. To ensure that neither Stericycle nor the generator of regulated medical waste violates applicable regulations, it is imperative that all parties understand the rules regarding proper identification, classification, segregation and packaging of regulated medical waste. The purpose of this policy is to summarize the minimum requirements for preparing your medical waste for collection, transportation and treatment. Additional facility or state-specific waste acceptance policies may apply based on permit specifications. Please contact your local representative for further information. You may also call (866) 783-7422.

REGULATED MEDICAL WASTE

Stericycle accepts medical waste generated in a broad range of medical, diagnostic, therapeutic and research activities. The term "medical waste" includes biohazardous, biomedical, infectious or regulated medical waste as defined under federal, state or local laws, rules, regulations and guidelines. Except as defined by specific state regulations, this excludes RCRA hazardous waste pharmaceuticals, all DEA scheduled drugs including *controlled substances, bulk chemotherapy, waste containing mercury or other heavy metals, batteries of any type, cauterizers, non-infectious dental waste, chemicals such as solvents, reagents, corrosives or ignitable materials classified as hazardous waste under Federal and State EPA Regulations. In addition, Stericycle cannot accept bulk liquids, radioactive materials, or complete human remains (including heads, full torsos and fetuses). Stericycle cannot accept these excluded materials packaged as regulated medical waste. All lab wastes or materials which contain or have the potential to contain infectious substances arising from those agents listed under 42 CFR 72.3 are strictly prohibited from medical waste by federal law and must be pretreated prior to disposal. Separate protocol and packaging requirements apply for the disposal of non-hazardous pharmaceuticals. Hazardous waste transportation services may be offered in certain geographical locations, under separate contract. Please contact your local representative for details and packaging specifications.

*Un-dispensed from DEA Registrant

WASTE SEGREGATION AND PACKAGING

The generator is solely responsible for properly segregating, packaging and labeling of regulated medical waste. Proper segregation and packaging reduces the potential for accidental release of the contents and exposure to employees and the general public. DOT regulations require (49 CFR 173.197) that all packages of regulated medical waste be prepared for transport in containers meeting the following requirements: 1) rigid; 2) leak resistant; 3) impervious to moisture; 4) of sufficient strength to prevent tearing or bursting under normal conditions of use and handling; 5) sealed to prevent leakage during transport; and 6) puncture resistant for sharps. All regulated medical waste must be accompanied by a properly completed shipping document (See 49 CFR 172.202).

MANAGEMENT OF NON-CONFORMING WASTE

As required by regulation and company policy, Stericycle employees may refuse containers that are non-conforming because of their contents or are improperly packaged, leaking, damaged or likely to create a risk of exposure to employees or the general public. Any non-conforming waste identified in route to or at a Stericycle location may be returned to the generator for proper packaging or disposal. Proper segregation and packaging is essential to ensure compliant and safe handling, collection, transportation and treatment of regulated medical waste.

STERICYCLE REGULATED MEDICAL WASTE ACCEPTANCE POLICY CHECKLIST

ACCEPTED REGULATED MEDICAL WASTE

- Sharps Means any object contaminated with a pathogen or that may become contaminated
 with a pathogen through handling or during transportation and also capable of cutting or
 penetrating skin or a packaging material. Sharps includes needles, syringes, scalpels, broken
 glass, culture slides, culture dishes, broken capillary tubes, broken rigid plastic, and exposed
 ends of dental wires.
- Regulated Medical Waste or Clinical Waste or (Bio) Medical Waste Means a waste or reusable material derived from the medical treatment of an animal or human, which includes diagnosis and immunization, or from biomedical research, which includes the production and testing of biological products.

ACCEPTED REGULATED MEDICAL WASTE WHICH MUST BE IDENTIFIED AND SEGREGATED FOR INCINERATION

- Trace Chemotherapy Contaminated Waste RCRA Empty drug vials, syringes and needles, spill
 kits, IV tubing and bags, contaminated gloves and gowns, and related materials as defined in
 applicable laws, rules, regulations or guidelines
- Pathological Waste Human or animal body parts, organs, tissues and surgical specimen (decanted
 of formaldehyde, formalin or other preservatives as required per hazardous waste rules).
- Non-RCRA Pharmaceuticals Must be characterized and certified as non-RCRA hazardous
 material by the generator. Excludes all DEA scheduled drugs, including controlled substances*
- California Only Solidified Suction Canisters Suction canisters that have been injected with solidifier materials to control liquids or suction canisters made of high heat resistant plastics such as polysulfone

REGULATED MEDICAL WASTE NOT ACCEPTED BY STERICYCLE

- Untreated Category A Infectious Substances
- RCRA Hazardous Pharmaceutical Waste and all DEA controlled drugs, including controlled substances*
- Chemicals Formaldehyde, formalin, acids, alcohol, waste oil, solvents, reagents, fixer developer
- Hazardous Waste Drums or other containers with a hazard warning symbol, batteries and other heavy metals
- Radioactive Waste Any container with a radioactivity level that exceeds regulatory or permitted limits; lead-containing materials
- Complete Human Remains (including heads, full torsos, and fetuses)
- Bulk Chemotherapy Waste
- Compressed Gas Cylinders, Canisters, Inhalers and Aerosol Cans
- Any Mercury Containing Material or Devices Any mercury thermometers, Sphygmomanometers, lab or medical devices
- Mercury-Containing Dental Waste Non-contact and contact amalgam and products, chairside traps, amalgam sludge or vacuum pump filters, extracted teeth with mercury fillings and empty amalgam capsules

*Consult Stericycle Representative for specific requirements

Additional waste acceptance policies may apply based on state or permit specific requirements. Hazardous waste transportation services may be offered in certain geographical locations, under separate contract. Please refer to your local Stericycle Representative for additional information and options for possible hazardous waste handling For additional information on container and labeling requirements contact our Stericycle Customer Service Department at (866) 783-7422.

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ATTACHMENT 3

WASTE TRACKING

III. WASTE ACCEPTANCE PROTOCOL

Stericycle's customer training on waste acceptance protocols includes person-to-person training, informational materials, and resources provided online (stericycle.com), which may include waste-acceptance information, a blog, and contact information for assistance to customers who have questions about waste acceptance and segregation.

1.0 WASTE ACCEPTED FOR TREATMENT

Section I, Waste Management Procedures, lists wastes that are accepted for treatment.

2.0 NON-CONFORMING WASTE NOT ACCEPTED

Prohibited waste is listed in Section I, Waste Management Procedures. Prohibited waste screening requirements are outlined below:

2.1. Radioactive Waste:

- 2.1.1. Prior to treatment, all containers will be screened using a radiation monitor. Any container with a radiation reading above 30-36 μR/hr will be rejected from treatment.
- 2.1.2. If radiation is detected above 30-36 μ R/hr, the Radiation Screening Protocol will be followed. (See attached Radiation Screening Protocol.)

2.2 Hazardous Waste:

2.2.1 Hazardous waste, as defined under Utah Administrative Code (UAC) R315-301-2 (30), and PCBs, as defined UAC R315-301-2 (53), will be rejected from treatment and arrangements will be made to return the waste to the generator or forward it to a proper treatment, storage, and/or disposal facility.

Training requirements are outlined in Section V, Personnel Training, and include training on Waste Acceptance Protocol which includes identification of non-conforming waste (waste in hazardous waste containers, waste with hazardous waste labels, compressed gas cylinders, waste in containers with radioactive waste labels, containers of chemicals, etc.)

3.0 PACKAGING OF WASTE

Waste containers must meet DOT standards and have a sealed, gasketed lid, or other container-closure device. Regulated medical waste received for treatment will be packaged in either reusable plastic containers, in single-use containers that can be incinerated, or other approved containers.

Sharps containers and Gaylord-style boxes may be received in groups (i.e., palletized). Containers are to meet DOT requirements and have a sealed, gasketed lid as required.

Containers that are leaking or damaged are rejected for further use, disinfected, and incinerated or may be shrink-wrapped and sent to an off-site facility for repair or processing. Spilled material will be appropriately cleaned as outlined in this plan.

4.0 REUSABLE WASTE CONTAINERS

Infection control requirements for reusable containers are outlined in Section XIII.

5.0 WASTE TRACKING

5.1 System for Tracking Waste:

Waste shipments received at the facility via a medical waste transporter must be accompanied by a shipping/tracking document (electronic or paper).

An electronic tracking system is used to record tracking data. For a description of waste tracking, see 1.0.E, Waste Tracking, in Section I, Waste Management Procedures.

A tracking system administrator addresses discrepancies within the electronic tracking system.

6.0 MANAGEMENT OF NON-CONFORMING WASTE AT THE FACILITY

Wastes that are non-conforming are rejected from treatment.

Procedures for non-conforming waste that inadvertently and/or unexpectedly arrives at the facility:

- The non-conforming waste is rejected from treatment by setting it aside and not placing it on the feed conveyor or processing into subsequent management (i.e., autoclaving at an off-site facility).
- Generator information from the non-conforming waste's container label is written into the log book as part of the operating record, along with the date, and the type of waste non-conformity.

- The facility manager (or designee) is informed about the non-conforming waste.
- The non-conforming waste is labeled in accordance with its non-conformity and the date.
- The non-conforming waste is taken to the non-conforming waste storage area.
- The generator or generator's representative is informed about the non-conforming waste and told that they are to make arrangements for the waste to be returned to them or sent to an appropriate waste management facility. They also are told to take measures to prevent non-conforming waste from being sent.
- Stericycle works with the generator to make these arrangements and ensure that the non-conforming waste is properly dispositioned.
- The disposition of the non-conforming waste is recorded in the operating record.

ATTACHMENT 4

INSPECTIONS

IV. INSPECTION PROCEDURES

1.0 INTRODUCTION

Records of inspections shall be maintained in the site operating record as required. Inspection items may be performed and records kept as part of the plant maintenance, transportation, and/or safety programs.

Inspection forms when required will note the inspection date and the inspector's name or initials.

Deficiencies found that require corrective action will be noted. An inspection may also note other observations and/or recommendations for corrective action. If a repair is immediately correctable (such as by replacing a sign, or getting another fire extinguisher) the corrective action may be noted on the form. Corrections made prior to completing the inspection need not be noted as a deficiency. If an item is not applicable, it will be noted on the form along with the reason, if required.

As site conditions change, inspection procedures and items will change.

2.0 FREQUENCY OF INSPECTIONS

The following specifies the minimum frequency of inspection for each required item.

- **2.1 Daily:** Daily inspections are not required to be recorded and may be performed by multiple personnel.
 - Inspect loading and unloading areas
 - Inspect liquid-waste tank system for leaks
 - Inspect above ground-piping for leaks
 - Inspect sumps and/or secondary containment
 - Visually inspect incinerator temperature-monitoring instrumentation
 - Inspect temperature settings of refrigerated trailers when in use

2.2 Weekly

- Perform a facility walk through of areas around the incinerator, container storage, and air-pollution control system.
- Inspect emergency eyewash and showers
- Inspect containers and related containment systems

2.3 Monthly

- Check radiation screening system for proper operation
- Inspect fire extinguishers

2.4 Quarterly

- Inspect perimeter lights, notice signs, and security fence
- Inspect spill kits
- Check operation of the HMIWI chart recorder
- Check calibration and operation of the weight scale system

2.5 Annual

- Check calibration and operation of the radiation-monitoring system
- Check facility emergency signals and conduct an evacuation drill

3.0 AREAS OF INSPECTION

Inspection criteria are noted in the table, below. The following outlines some of the items that will be checked during the inspections.

3.1 Containers

Fly ash bags and waste containers are inspected for proper labeling and closure, cracks, tears, leaks, spills, and stacking stability.

3.2 Wastewater Storage Tank

The wastewater tank receives wastewater from the facility processes.

3.3 Incinerator

The inspection schedules for the incinerator are included in this section. See tables, below.

3.4 Sumps and Secondary Containment Areas

The sumps are located under the incinerator, ash quench tank and in the storage area.

If a sump contains any material that would compromise its function, it will be cleared as needed to prevent overflow.

3.5 Other Areas

Safety and security inspections are made of the fence, locks, fire extinguishers, alarms, emergency eyewashes and showers.

4.0 CORRECTIVE ACTION

The status of items being inspected will be noted on the inspection logs. A blank will not be used to indicate an acceptable status. A work order number may be referenced as necessary if additional corrective-action work needs to be done. Corrective actions will be completed in a timely manner.

5.0 EXAMPLE INSPECTION MATRIX

The matrix contained in this section is only an example. The forms may be changed as site conditions change. Additionally, they may be electronic or exist in some other format.

Example Daily Inspection			
General	Suggested Inspection		
Loaded refrigerated trailers	Operable, correct temperature		
North loading/unloading area	Leaks, spills		
South loading/unloading area	Leaks, spills		
Sump under incinerator	Operational, free of obstructive material		
Sump under bottom ash (quench tank)	Operational, free of obstructive material		
Incinerator Monitoring Instrumentation			
Secondary Combustion Chamber Temperature	Good working order, recording properly		
Primary Combustion Chamber Temperature	Good working order, out of tolerance, recording properly		
Bag house	Good working order		
Incinerator Temperature Chart Recorder	Good working order, out of tolerance, recording properly		

Example Weekly Inspection			
Inspection Item	Suggested Inspection		
System Walk Through			
Containers (reusable) in Process Area	Operational, good working order, proper labels, as applicable		
Storage Area – Containers (fly ash)	Closed, bulging, leaking, proper placement, labels		
Eyewashes	Operable		
Showers	Operable		

Example Monthly Inspection			
Inspection Item Suggested Inspection Outcomes to be Indicated			
Radiation Monitoring System Operable			
Fire Extinguishers Tagged, charged, in-place, damage			

Example Quarterly Inspection					
Inspection Item	Suggested Inspection Outcomes to be Indicated				
Safety and Security	urity				
Exterior Wall	Gate closed, no breach in exterior wall that would allow unauthorized entry				
Warning Signs	Legible, visible and secured				
Perimeter Lighting	All lights working				
Spill Kits	Inspect and restore if necessary				
Instrumentation					
HMIWI Chart Recorder	Operable				
Weight Scale System	Calibrated and check Data Acquisition System (DAS) Signal				

Example Annual Inspection			
Inspection Item Suggested Inspection Outcomes to be Indicated			
Radiation Monitoring System Operable, calibrated			
Evacuation Drill Check alarms and for proper response			



Daily Inspection Log / Summary

Tooele County Incinerator Plant

The purpose of this Daily Inspection Log / Summary is to provide a daily record (log or summary) of observations of the facility related to malfunctions and deterioration, operator errors, and discharges which may cause or lead to the release of wastes to the environment or to a threat to human health.

		· Variable News (class)	Date of Inspection / Time
	Inspector Name (print)	Inspector Name (sign)	
	Inspector Name (print)	Inspector Name (sign)	Date of Inspection / Time
	Inspector Name (print)	Inspector Name (sign)	Date of Inspection / Time
	Inspector Name (print)	Inspector Name (sign)	Date of Inspection / Time
	Inspector Name (print)	Inspector Name (sign)	Date of Inspection / Time
	Inspector Name (print)	Inspector Name (sign)	Date of Inspection / Time
	Inspector Name (print)	Inspector Name (sign)	Date of Inspection / Time
Annlicabl	e additional notation for items m	narked "Fix" above	
Applicabl	e additional notation for items m	narked "Fix" above.	

(Note if additional work needs to be done. Use additional pages, if necessary.)



Monthly / Quarterly Inspection Tooele County Incinerator Plant

No	to:	If problems are found the equi-	oment is tagged out of service and	a magnisition is also ad with
NO	ic.		air. All equipment will be maintai	
ОК	Fix	lighting, area arou extinguishers prop	ar/unobstructed exits,nd first aid stations and fire exting perly marked / charged / inspected spill kits present and properly stoo	uishers clear and accessible, , first aid cabinet
- 111 - 122 - 123 - 123		Inspector Name (print)	Inspector Name (sign)	Date of Inspection / Time
	-	Inspector Name (print)	Inspector Name (sign)	Date of Inspection / Time
-	-	Inspector Name (print)	Inspector Name (sign)	Date of Inspection / Time
OK	Fix	Inspection Instructions (what to	inspect & acceptable criteria)	
		Perimeter lights, notice signs, an	nd security fence: Visually inspect	t for presence, integrity
	1 -	Absorber liquor circulation feed	and DAS: Check for current cali	bration and verify operation
= -		Emergency by pass stack cap Daduring quarter	AS signal: Check for operation du	uring emergency conditions
		Scale system: Check for curren	t calibration and verify operation	
_		Secondary chamber temperature	controller and DAS: Check for c	current calibration and operation
-		Ensure that inspections associate emergency generator log, carbon	ed with state and local air pollution bed log)	n laws are being completed (i.e
Appli	cable	e additional notation for items ma	rked "Fix" above.	



Facility	y: To	oele	County

	For Month Of:					
		TEMPERATURES	LEAKS OR PROBLEMS			
	TIME OF	AND SETTINGS	WITH RUN-OFF/			
DATE	INSPECTION	AS REQUIRED?	RUN-ON CONTROLS?	COMMENTS	INITIALS	
1		YES / NO	YES / NO			
2		YES / NO	YES / NO	17 - 17 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		
3		YES / NO	YES / NO			
4		YES / NO	YES / NO			
5		YES / NO	YES / NO		- '	
6		YES / NO	YES / NO			
7	1 7	YES / NO	YES / NO			
8		YES / NO	YES / NO		7	
9		YES / NO	YES / NO		11 12	
10		YES / NO	YES / NO			
11		YES / NO	YES / NO			
12		YES / NO	YES / NO		= ==	
13		YES / NO	YES / NO			
14		YES / NO	YES / NO			
15		YES / NO	YES / NO			
16	144	YES / NO	YES / NO			
17		YES / NO	YES / NO			
18		YES / NO	YES / NO			
19		YES / NO	YES / NO			
20		YES / NO	YES / NO		-	
21		YES / NO	YES / NO			
22		YES / NO	YES / NO			
23		YES / NO	YES / NO			
24		YES / NO	YES / NO			
25	=	YES / NO	YES / NO			
26		YES / NO	YES / NO			
27		YES / NO	YES / NO			
28		YES / NO	YES / NO		-	
29		YES / NO	YES / NO		15	
30		YES / NO	YES / NO			
31		YES / NO	YES / NO		- (5	
	 Jame			ture		

Print Name	Initials	Signature
Print Name	Initials	Signature
Print Name	Initials	Signature



Radiation Screening Unit Check Facility: **TOOELE COUNTY** For Month Of: TIME UNIT **CHECK SOURCE** ALARM / LIGHT DATE WAS CHECKED | USED TO TEST UNIT **FUNCTIONING? COMMENTS INITIALS** 1 YES / NO 2 YES / NO 3 YES / NO 4 YES / NO 5 YES / NO 6 YES / NO 7 YES / NO 8 YES / NO 9 YES / NO 10 YES / NO 11 YES / NO 12 YES / NO 13 YES / NO 14 YES / NO 15 YES / NO 16 YES / NO 17 YES / NO 18 YES / NO 19 YES / NO 20 YES / NO 21 YES / NO 22 YES / NO 23 YES / NO 24 YES / NO 25 YES / NO 26 YES / NO 27 YES / NO 28 YES / NO 29 YES / NO 30 YES / NO 31 YES / NO

Print Name	Initials	Signature
Print Name	Initials	Signature
Print Name	Initials	Signature

ATTACHMENT 5

TRAINING

V. PERSONNEL TRAINING

1.0 INTRODUCTION AND OVERVIEW

This section addresses training requirements for waste management activities at the facility. Training is provided via introductory training programs for new hires and continuing training programs for facility personnel.

Both introductory and continuing training may be provided via online platforms or in classroom settings. Online training sessions are followed by quizzes which require 100% competency to complete.

During the first 180 days of employment, new hires may work under supervision of a trained employee until classroom or online training is completed, unless otherwise noted in Table 1.

Annually, a contingency exercise or drill will be conducted that includes implementation of the Contingency Plan, a written evaluation of employees' response to the drill, and a headcount of employees that participated in the drill.

2.0 SCOPE OF TRAINING PROGRAM

2.1 Stericycle Employees

Stericycle employees are categorized as: Plant Workers, Maintenance Technicians, Drivers, Supervisors and Managers.

2.2 Non Stericycle Employees – Temporary Employment Agency

Temporary employees are utilized on an as-needed basis. Temporary employees are typically hired for shorter periods of time (e.g., less than 6 days or less than 3 months).

2.3 Contractors (3rd Party)

Contract workers receive training prior to beginning unsupervised on-site work involving waste. A contractor representative may sign an acknowledgment for required Stericycle training prior to beginning on-site work involving waste.

2.4 Non-Waste Workers, Visitors, Inspectors, etc

Visitors, inspectors, and non-waste workers are escorted as necessary during the course of their site visit.

Visitors, inspectors, and non-waste workers shall not be directly involved in waste handling or waste management activities.

3.0 PERSONNEL TRAINING RECORDS

Training required by this plan is documented either electronically (in the True North, or equivalent, database) or in manual training record files.

Training records of current personnel must be kept until closure of the facility. Training records on former employees must be kept for at least three years from the date the employee last worked at the facility.

TABLE 1 – LIST OF TRAINING TOPICS

(Unless noted, all topics are completed prior to an employee beginning unsupervised, waste-related work and annually thereafter.)

TRAINING TOPIC	Driver	Driver Supervisor/ Manager	Plant Worker	Plant Supervisor/ Manager	Maintenance Technician
Access to Exposure and Medical Records	X	X	X	X	X
Bloodborne Pathogens	X	X	X	X	X
DOT Hazardous Materials*	X	X	X	X	X
Emergency Action Plan	X	X	X	X	X
Eye Wash and Emergency Shower			X	X	X
Fire Extinguishers	X	X	X	X	X
Hazard Communication	X	X	X	X	X
Hazardous Waste Management**			X	X	X
Incinerator Operator***			X	X	X
Personal Protective Equipment – PPE	X	X	X	X	X
Radiation Training	X	X	X	X	X
Respiratory Protection***	X	X	X	X	X
Spill Response	X	X	X	X	X
Tub Wash Water Training			X	X	X
Waste Acceptance Protocol	X	X	X	X	

^{*} Complete Training within 90 Days of Date of Hire

^{**} Where applicable. Training also includes proper handling and emergency procedures appropriate to the type, or types of universal waste handled at the facility

^{***} Where applicable

ATTACHMENT 6

CONSTRUCTION – FENCING & ACCESS CONTROLS

VI. FACILITY SECURITY

1.0 24-HOUR SURVEILLANCE SYSTEM

The facility is occupied 24 hours per day during normal operations. The facility is monitored by employees or by using security cameras.

2.0 BARRIER

The internal areas of the facility are to be surrounded by gates and a six-foot, chain-link fence. The main gate is to be electrically controlled and can be opened or closed from the front office or by code. Visitors and trucks are logged by name, and date of entrance.

During non-business hours, the main gate and front door will be locked. Visitors arriving during non-business hours will be able to communicate with the facility (e.g., a plant supervisor) by telephone or radio.

3.0 MEANS TO CONTROL ENTRY

Non-Stericycle vehicles must stop at the gate to sign in and obtain docking or contact information. Trucks will be checked to ensure they are scheduled and then routed to the appropriate area.

Local law enforcement will be called in the event of offensive trespassing.

4.0 WARNING SIGNS

At entry points to the facility, notifications will be posted. Example: UNAUTHORIZED PERSONNEL KEEP OUT. VISITORS MUST SIGN IN AT THE FRONT OFFICE (or FRONT DESK).

ATTACHMENT 7

CONTINGENCY PLAN

VII. PREPAREDNESS AND PREVENTION PLAN

1.0 INTRODUCTION

This Preparedness and Prevention Plan outlines the equipment and procedures in place at the Stericycle, Inc. facility to prevent and respond to emergencies at the facility. These emergencies include fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents.

2.0 EQUIPMENT

2.1 Internal Communications

The communications system at the plant includes telephone and audible alarms. Telephones will be available at the front desk and in the employee area (e.g., break room). Personnel will have access to a phone or the internal alarm system during operations.

2.2 External Communications

The plant is equipped with a standard telecommunications system that is connected to the public phone system by standard lines. Outside emergency calls can be made by dialing the emergency number 911 using any phone.

2.3 Emergency Equipment

Facility communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment, where required, will be tested and maintained as necessary to assure its proper operation in time of emergency.

2.4 Spill Control Equipment

Spill kits are located in the dry storage area, incinerator area, and in the Air Pollution Control area. Spill kits vary in content based on storage location.

2.5 Personal Protective Equipment (PPE)

Required PPE is made available to employees.

2.6 Water for Fire Control

A water system is available for fire control within the facility. The fire water pump system is in full compliance with the requirements of NFPA 20.

3.0 TESTING AND MAINTENANCE OF EQUIPMENT

Emergency eyewashes, showers, fire extinguishers, sumps, spill kits, alarms, and other emergency equipment are inspected regularly. If problems are found, the equipment is tagged out of service and a requisition is placed with maintenance for immediate repair. All equipment will be maintained as necessary to assure its proper operation in time of emergency.

4.0 AISLE SPACE REQUIREMENTS

All areas of the plant are accessible by fire protection equipment around the perimeter plant area. Container placement and aisle space in the waste management area (dry storage area) will be maintained at two feet between the stored containers and any stationary items in the adjacent driveway area in the building.

5.0 PREVENTIVE PROCEDURES, STRUCTURES, AND EQUIPMENT

5.1 Unloading Operations

The unloading areas for trailers of containers are provided with dock levelers to minimize the potential for mishandling containers due to uneven surfaces or trailer movement. Lighting devices are provided to illuminate the transport vehicle cargo areas during unloading and loading. Containers are off-loaded by handcarts, forklifts, conveyors or by other material handling equipment or means.

5.2 Runoff

The process operations are contained within facility structure with appropriately designed containment. No waste or process water is expected to migrate beyond these areas. Waste containers are stored in the building or on trailers. No runoff from the waste processing or storage areas is expected. The site drainage is to the southwest.

5.3 Equipment and Power Failure

Equipment failure is monitored by instrumentation. Detection of an abnormal operating condition or process parameter initiates a waste feed lockout or controlled shutdown of the equipment. In the event of a loss of external power, the facility generator will be started to provide power to critical process equipment.

6.0 PREVENTION OF REACTION OF IGNITABLE, REACTIVE AND INCOMPATIBLE WASTES

Stericycle utilizes a strict waste acceptance policy. See Section I, Waste Management Procedures, and Section III, Waste Acceptance Protocol. Ignitable, reactive or incompatible wastes are not received for treatment. If an ignitable, reactive, or incompatible waste is generated incidental to operations, it will be stored and labeled as required by 40 CFR 262.34(a)(3) until transported to a permitted treatment, storage, and disposal facility. Precautions for segregating incompatible or reactive materials (e.g., strong acids and bases) will be employed, and materials will be safeguarded from flame, spark, or other ignition sources when ignitable.

VIII. SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN

The Stericycle Tooele County facility is not required to have a Spill Prevention Control and Countermeasures Plan. The plant has an aggregate above-ground storage capacity less than 1,320 gallons.

For requirements, policies and practices applicable to the Stericycle Tooele County facility related to spill prevention, inspection, and spill response, refer to Sections I, IV, V, VII, and IX of this Plan of Operations.

IX. CONTINGENCY PLAN

1.0 EMERGENCY RESPONSE PLAN (ERP)

Contact Information

One or more of the following key management members may be contacted in the event of an emergency:

Brian Kirkwood	Phone # 801-349- 9111	Facility Manager
Matt Thompson	Phone # 801-885- 7992	Transportation Manager
Dale Rich	Phone # 704-787- 3134	Region Operations Director
Alan Inkley	Phone # 801-503- 5985	Area Safety Manager
Jay Vance	Phone # 801-971- 2042	Environmental Quality Manager

Emergency Telephone Numbers

In case of fire, explosion, personal injury, law enforcement, or any other emergency: Call 911

To outsource clean up and spill reporting to government entities call (or similar contractors):

Chemtrec for Spills	Hotline:	800-424-9300
ERTS for Spills (per SH-P 002)	Hotline:	800-210-6804

For Major Medical Waste Spills (not including in-facility spills), deemed unmanageable, should be reported to the Utah Department of Environmental Quality.

Utah Department of		801-536-0200
Environmental Quality	Hotline (after hours for timely response)	801-536-4123

Medical responses are initiated by the Emergency Coordinator via the following facilities:

Serious	Mountain West Medical Center	911
Emergency Care	2055 North Main Street	435-843-3600
	Tooele County, UT 84074	
	Airmed (Thru Dispatch)	911

	Mountain West Ambulance Transport,	911
	Tooele County, UT	(435) 882-1900
Urgent	Urgent Care of Tooele Valley	(435) 882-3968
Night/Weekend	1244 N. Main, Suite 201	Mon-Sun 9AM -10PM
Care	Tooele UT 84074	
Non urgent	Intermountain InstaCare	(435) 228-1200
weekday care	777 N Main St., Tooele, Utah 84074	9 AM – 9 PM
	Mountain West Family Practice	(435) 882-2350
	2356 North 400 East, Suite 201,	M-F 8 AM – 9 PM
	Tooele, Utah	.=

2.0 EVACUATION PLAN AND INFORMATION

A. Evacuation Instructions

- 1. The facility shall be evacuated according to the following steps:
 - a. Announcement of evacuation both by alarm and oral instructions
 - b. Facility personnel will evacuate via the routes and exits per the evacuation plan. (Note: Personnel exiting through the yard gate will use the manual open switch in the event of a loss of power during an evacuation.)
 - c. Personnel will move to the rally point located in the southwest corner of the property

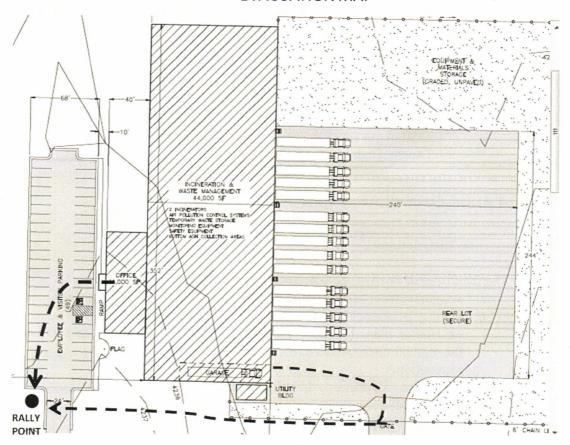
2. The Emergency Coordinator Responsibilities:

- a. The Emergency Coordinator will conduct a roll call. All employees shall be accounted for by each supervisor.
- b. Emergency Coordinator will use this information to determine missing persons
- c. Emergency Coordinator will direct effort to account for any missing personnel.
- d. Emergency Coordinator will share headcount information with emergency responders
- e. Following an evacuation, personnel will not return to work until the "all clear" is given by the Emergency Coordinator.

3. Evacuation Plans/Maps

- a. Posted in the facility
- b. Exits and routes are indicated
- c. Rally point is indicated.
- d. Other emergency equipment is indicated on the posted maps, e.g. fire extinguishers, eye wash, spill kits, first aid kits, shelters, hydrants, gas and utility shut off

EVACUATION MAP



3.0 CONTINGENCY PLAN

A. Implementing this Contingency Plan

- 1. This plan shall be implemented immediately in the event of the following contingencies:
 - a. Fires
 - b. Explosions
 - c. Releases

For purposes of this plan, a release is defined as discharge of materials that have the potential to become a threat to human health or the environment (i.e., hazardous waste or material which, when spilled, becomes hazardous waste) to non-contained, unpaved, or unlined areas outside of the incinerator facility.

- 2. Contingency Plan Procedure
 - a. Any employee, contractor, or other worker upon discovery of a fire, explosion, or release at the facility shall implement this Contingency Plan
 - b. Following discovery of a fire, explosion or release, the discoverer shall notify an individual on the list of Emergency Coordinators. (See page 21.)
- 3. Access to Corporate Resources
 - a. All employees shall have access to Stericycle resources for emergency response
- 4. Arrangements with local response organizations. The following agencies have been contacted:
 - a. North Tooele County Fire District (key entry and/or gate entry access will be arranged, as necessary).
 - b. Tooele County Health Department (annual inspections and permitting)
- 5. Records of implementation of this Contingency Plan will be kept in the operating record.

B. Copies of Contingency Plan

1. The Permittee shall keep a copy of this Contingency Plan in the facility office.

C. Amendment of this Contingency Plan

- 1. The plan shall be reviewed and amended, as necessary, under any of the following circumstances:
 - a. The permit or facility is modified affecting this Contingency Plan.
 - b. The emergency names (emergency coordinators) or their telephone numbers change.

D. Emergency Equipment

1. Below lists the facility emergency equipment and provides a brief outline of their capabilities, location in the facility, or use:

Emergency Equipment	Capabilities, Location, or Use	
Eye Wash Shower Stations	Shower and eye wash	One Each in each bay
First Aid Kits	Portable	1-Office area
		2-Breakroom
Fire Suppression	Wet system – heat activated	
Fire Extinguishers	"ABC" & 1 "C" -Electrical	Indicated on Evacuation Chart
Evacuation Alarm	Audible	Plant
Spill Kits	For spills of RMW, aqua	Kits with absorbent,
	ammonia, and caustic soda	containment
PPE (Respiratory)	Full Face and Universal	Accessible for plant employees
	Cartridges (includes	
	Ammonia)	
PPE (Hands)	Gloves	Latex for RMW; nitrile for
		chemicals
PPE (Body)	1. Tyvek with hood, boots,	For use during shutdown
	tape	maintenance
	2. Heat Suits: with hood	
PPE (Head)	Helmets (hard hats)	In pollution control area

PPE is available in the safety equipment dispensary.

E. Emergency Coordinator Duties

- 1. For imminent or actual emergencies: Activate internal facility alarm or communication systems, notify and evacuate facility personnel. Notify appropriate response agencies if their help is needed.
- 2. For a release, fire, or explosion: As reasonably possible, identify the character, exact source, amount, and areal extent of any released materials.
 - a. For threats to human health and/or environment within and/or outside of the facility: Emergency Coordinator shall respond and report as outlined in this plan.
 - b. For threats to the larger local area: If the Emergency Coordinator's assessment indicates that evacuation of nearby areas may be advisable, the Emergency Coordinator shall immediately notify appropriate authorities. The Emergency Coordinator shall be available to help appropriate officials decide whether local areas should be evacuated.

4.0 COORDINATION AGREEMENTS

Arrangements with Emergency Response Contractors:

The facility has agreements with, the following Treatment, Storage, and Disposal Facility:

Clean Harbors Environmental Services, Inc. Grassy Mountain 3 Miles East 7 Miles North of Knolls Clive, UT 84029 (801) 323-8900

5.0 REQUIRED REPORTS

As required in the event of an applicable contingency, the facility shall immediately notify the Utah Department of Environmental Quality (Division of Waste Management and Radiation Control).

The report will include:

- Name and telephone number of reporter;
- Name and address of facility;
- Time and type of incident, e.g., discharge, fire;
- Name and quantity of material(s) involved, to the extent available;
- The extent of injuries, if any; and
- The possible hazards to human health or the environment, outside the facility.

The facility will record Contingency Plan incidents in the operating record, as required.

Where required, the facility will submit a written report to the Executive Secretary within 15 days after an incident that required implementation of the Contingency Plan. The report will include:

- Name, address, and telephone number of the owner or operator;
- Name, address, and telephone number of the facility;
- Date, time, and type of incident;
- Name and quantity of material(s) involved;
- The extent of injuries, if any;
- An assessment of actual or potential hazard to health or the environment, and
- Estimated quantity and disposition of recovered material that resulted from the incident.

Contained spills or discharges that do not threaten human health need not be reported.

As required by 40 CFR §302.6, spills on site involving reportable quantities (RQ) will be reported to the National Response Center at 800-424-8802. As required, they will also be reported to the Utah Division of Waste Management and Radiation Control, Tooele County Health Department, and the U.S. EPA, Region VIII.

As required, reports to the Director will be sent to:

Director Utah Division of Waste Management and Radiation Control P.O. Box 144880 Salt Lake City, Utah 84114-4880

Required reports to EPA Region VIII will be submitted to:

Regional Administrator U.S. EPA - Region 8 1595 Wynkoop Street Denver, CO 80202-1129

Required reports to Tooele County Health Department will be submitted to:

Tooele County Health Department 151 North Main Street Tooele, UT 84074

Immediate reporting of certain events to the Utah Department of Environmental Quality, as outlined in this plan, shall be made to the following:

Utah Division of Waste Management and Radiation Control (801) 536-0200 (during office hours); or

Utah Department of Environmental Quality (801) 536-4123 (24-hour answering service)

ATTACHMENT 8

CLOSURE

XIV. CLOSURE/ FINANCIAL ASSURANCE PLAN

1.0 CLOSURE INTRODUCTION

This closure plan applies to the Stericycle, Inc. Incineration Facility in Tooele County, Utah. The closure plan was prepared in accordance with the requirements of R315-302-3. The closure plan assumes a worst-case cost scenario which would occur when the maximum waste inventory is stored on-site and a third-party contractor is hired to conduct the closure. The maximum inventory on-site includes all waste items and materials which Stericycle, Inc. may have stored in the facility. The closure plan addresses the shipment offsite for treatment/disposal of the waste items and materials as well as decontamination of the process area and equipment, and all sample analyses.

This section also contains information required under R315-309 regarding financial assurance.

Decontamination of storage areas, process areas, floors, walls, and internal structures will be performed. Decontamination techniques following removal of waste inventory will utilize a combination of flushing and steam cleaning to effectively remove contaminants. Where necessary, the surface areas will be manually scrubbed or steamed and the liquid generated from this process will be collected by vacuum, sumps, and/or pumps to convey the liquid into tanks or other approved containers. The collected liquids residues will then be characterized, and if necessary, sent for treatment/disposal at state and/or EPA approved facilities.

2.0 CLOSURE SCHEDULE AND NOTIFICATION OF CLOSURE

At least 60 days prior to the initiation of closure activities, Stericycle, Inc. will notify the Utah Division of Waste Management and Radiation Control that closure activities will begin on a date specified in the notice.

A detailed schedule identifying the time frame for closing the individual units at the facility will be submitted with the notification of closure. Per R315-302(3)(d), if is determined that an amendment of the closure plan is required, a closure plan amendment will also be submitted with the notification for closure. If an amendment is submitted, closure activities will not commence until the amendment has been reviewed and approved by the Utah Division of Waste Management and Radiation Control.

3.0 HEALTH AND SAFETY

Those involved in closure activities will follow the facility procedures for the protection of worker health and safety. For the purpose of this closure plan, levels of worker protection are defined as follows:

Level B Protection

Self-contained breathing apparatus

Air lines and tanks

Steel-toe, leather boots

Boot covers

Tyvek coveralls

Chemically resistant gloves

Hardhat

Eye protection

Level C Protection

Air purifying respirator and cartridges

Steel-toe, leather boots

Boot covers

Tyvek or cotton coveralls

Chemically resistant gloves

Hardhat

Eye protection

Level D protection includes the standard health and safety equipment for construction activities.

4.0 CLEANUP LEVEL

Stericycle, Inc. intends to decontaminate all the process equipment to non-contaminated levels as required by the State of Utah at the time of facility closure.

All areas of the incineration facility including the incinerator, gas cleaning train and storage areas, concrete floors, and building walls are to be decontaminated to the levels required by the State of Utah at the time of closure.

5.0 START OF CLOSURE

Closure of the facility will begin on the closure date specified in the notification letter to the State of Utah. An early step in closure of the facility will be removal of waste inventory. Before final decontamination of a specific unit begins, all waste will be incinerated on-site, and/or sent to an approved medical waste treatment facility.

6.0 CLOSURE PROCEDURES

The closure/decontamination procedures shall include, but not necessarily be limited to, the following activities for each type of process equipment:

6.1 Shutdown and Cleaning of the Incinerator

All incoming waste deliveries will be terminated. Waste inventories will be processed and/or sent to an approved medical waste facility. After the final charge of the incinerator, the unit will continue operating until the waste inside the primary chamber has combusted for a minimum of 2 hours. The APC equipment will continue operating until the combustion process has been completed.

When the incinerator has had the opportunity to cool down, the incinerator will be locked out for final cleaning of the primary and secondary chambers.

Any bottom ash in the quench tank will be removed. The bottom ash will be disposed of in an approved disposal facility following applicable waste characterization requirements.

6.2 Preparing the Incinerator for Decommissioning

Once the final clean out has occurred, the incinerator will be disconnected from the gas feed system. The hydraulic systems will be cycled to place the equipment in the proper position and the hydraulics will be dismantled. The hydraulic oils will be collected and disposed/recycled appropriately. The air systems will be disconnected. The electrical systems will be disconnected rendering the incinerator and APC equipment inoperable.

6.3 Cleaning and Decommissioning the APC

A third-party company permitted to perform such operations will clean the APC equipment. The contractor will provide a certification that the equipment has been properly decontaminated and all residual materials have been disposed of in accordance with applicable regulations.

The Filter Fabric Bag House will be pulsed to remove as much fly ash as possible. The baghouse hopper will be emptied with the resulting fly ash being treated and disposed of by an EPA approved TSDF. All electrical equipment for operation of the incinerator will be de-energized and locked out.

Once the APC equipment has been decontaminated, waste disposal will occur.

6.4 Decommissioning the Incinerator

- Usable parts such as burners, blowers, control systems, thermocouples, etc. may be removed from the incinerator prior to dismantling the primary and secondary chambers.
- The stacks and associated breeching will be lowered to the ground with a crane or alternative equipment.
- Depending upon the final disposal options, the refractory will be removed and characterized. Removed scrap metal may be sent to a recycler.
- The charging platform, hydraulic cylinders, and charging door will be separated from the primary chamber.
- The ash plows in the primary chamber will be removed and recycled or disposed of.
- The refractory in the primary chamber will be removed and tested as described above.
- The ash dragon will be removed and reused or recycled.

- The quench water will be removed, characterized and disposed of accordingly.

6.5 Area Cleaning

The concrete pad and surrounding area will be cleaned.

Gas lines and electrical lines to the incinerator will be removed back to the gas meter and the electrical panel.

Residual materials such as sodium bicarbonate, hydraulic fluids, caustic soda, etc. will be utilized or disposed of at an approved facility.

7.0 SAMPLING AND ANALYSIS

Sampling and analytical testing during the closure performance period shall conform to applicable requirements.

8.0 CLOSURE COST ESTIMATES

The total cost to close the facility using third party cost in 2015 dollars is estimated to be \$500,000.

9.0 POST-CLOSURE PLAN

As discussed above, Stericycle, Inc. will fully decontaminate all waste management units of the facility to non-contaminated status except where noted. Contaminated items that cannot be decontaminated will be disposed of at an approved hazardous waste or medical waste facility as appropriate. It is therefore not anticipated that any post-closure monitoring of the site will be required. In addition, this site is not used for land-based or water-based disposal, as such, a post-closure plan is not required under Utah Department of Environmental Quality regulation R315-302-3(1).

10.0 CLOSURE COSTS AND FINANCIAL ASSURANCE

To satisfy financial assurance closure cost requirements, Stericycle, Inc will establish financial assurance in accordance with R315-309. The mechanism for compliance with financial assurance requirements will be selected consistent with the options presented in R315-309 and the relevant proof will be submitted prior to the facility receiving waste.

11.0 FINAL INSPECTION BY REGULATOR AGENCIES

A final inspection will be scheduled with regulatory agencies upon final closure of the facility. Upon completion of closure activities, a professional engineer registered in the state of Utah will submit certification that the facility was closed in accordance with the closure plan.

ATTACHMENT 9

RADIATION PROTOCOLS

III. WASTE ACCEPTANCE PROTOCOL

Stericycle's customer training on waste acceptance protocols includes person-to-person training, informational materials, and resources provided online (stericycle.com), which may include waste-acceptance information, a blog, and contact information for assistance to customers who have questions about waste acceptance and segregation.

1.0 WASTE ACCEPTED FOR TREATMENT

Section I, Waste Management Procedures, lists wastes that are accepted for treatment.

2.0 NON-CONFORMING WASTE NOT ACCEPTED

Prohibited waste is listed in Section I, Waste Management Procedures. Prohibited waste screening requirements are outlined below:

2.1. Radioactive Waste:

- 2.1.1. Prior to treatment, all containers will be screened using a radiation monitor. Any container with a radiation reading above 30-36 μ R/hr will be rejected from treatment.
- 2.1.2. If radiation is detected above 30-36 μ R/hr, the Radiation Screening Protocol will be followed. (See attached Radiation Screening Protocol.)

2.2 Hazardous Waste:

2.2.1 Hazardous waste, as defined under Utah Administrative Code (UAC) R315-301-2 (30), and PCBs, as defined UAC R315-301-2 (53), will be rejected from treatment and arrangements will be made to return the waste to the generator or forward it to a proper treatment, storage, and/or disposal facility.

Training requirements are outlined in Section V, Personnel Training, and include training on Waste Acceptance Protocol which includes identification of non-conforming waste (waste in hazardous waste containers, waste with hazardous waste labels, compressed gas cylinders, waste in containers with radioactive waste labels, containers of chemicals, etc.)

3.0 PACKAGING OF WASTE

Waste containers must meet DOT standards and have a sealed, gasketed lid, or other container-closure device. Regulated medical waste received for treatment will be packaged in either reusable plastic containers, in single-use containers that can be incinerated, or other approved containers.